



Powering the Net Connecting the Net

Craig Barrett
President and CEO

The background of the image is a blurred version of the European Union flag, featuring a circle of twelve gold stars on a blue field. The text "e-Pluribus Unum" is centered over the flag.

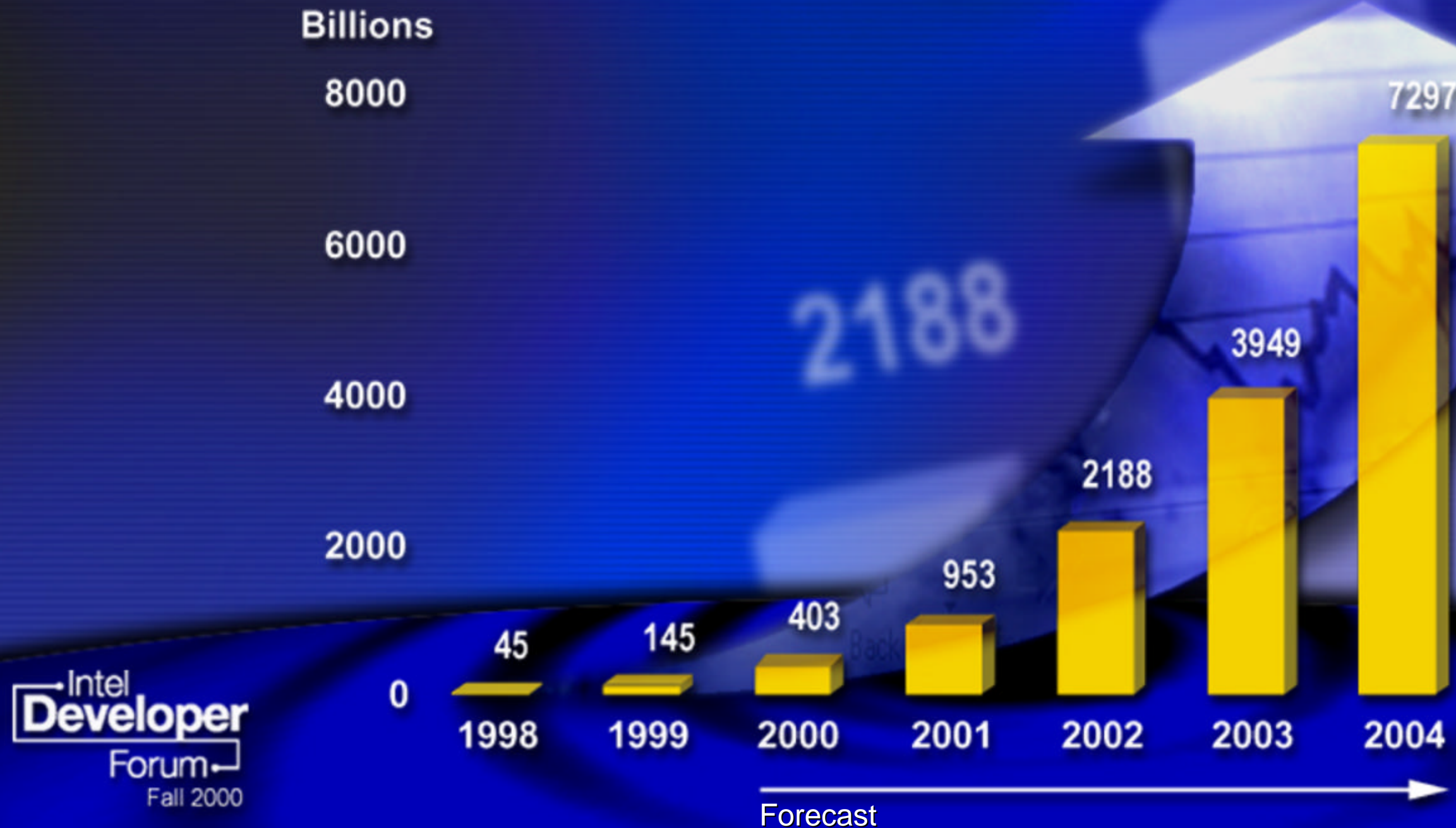
e-Pluribus Unum

Agenda

- Internet trends
- e-Business front-to-back
- Peer-to-peer computing
- Developing for the Internet

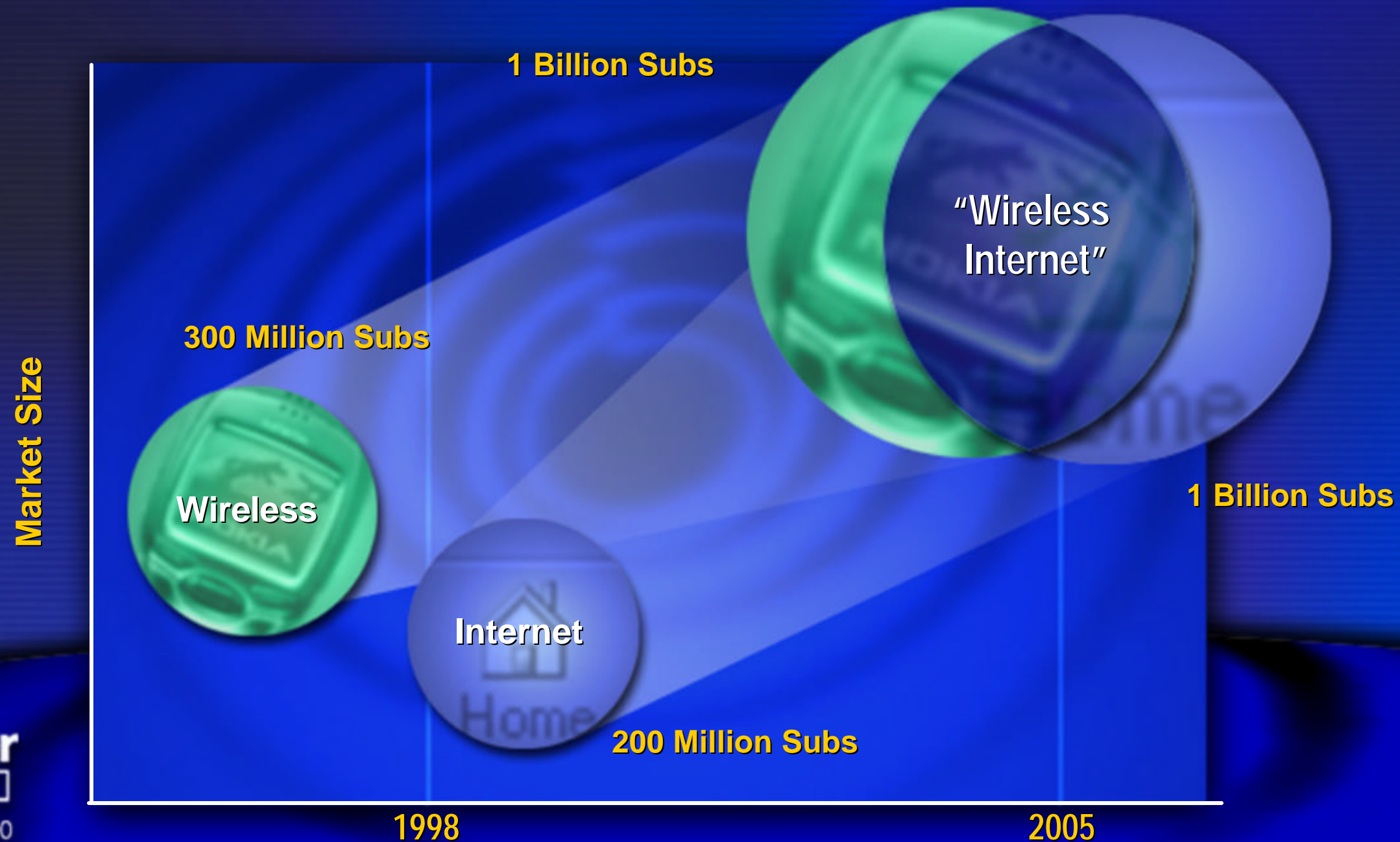
e-Business Revenue Forecasts

Worldwide Business to Business e-Commerce Forecast



Market Environment Going Forward

Wireless (Phone) and Internet (PC) Converge



The Modular Internet

SOLUTIONS

SOFTWARE

NETWORK

HARDWARE



**The Internet is
driven by many,
not by one**

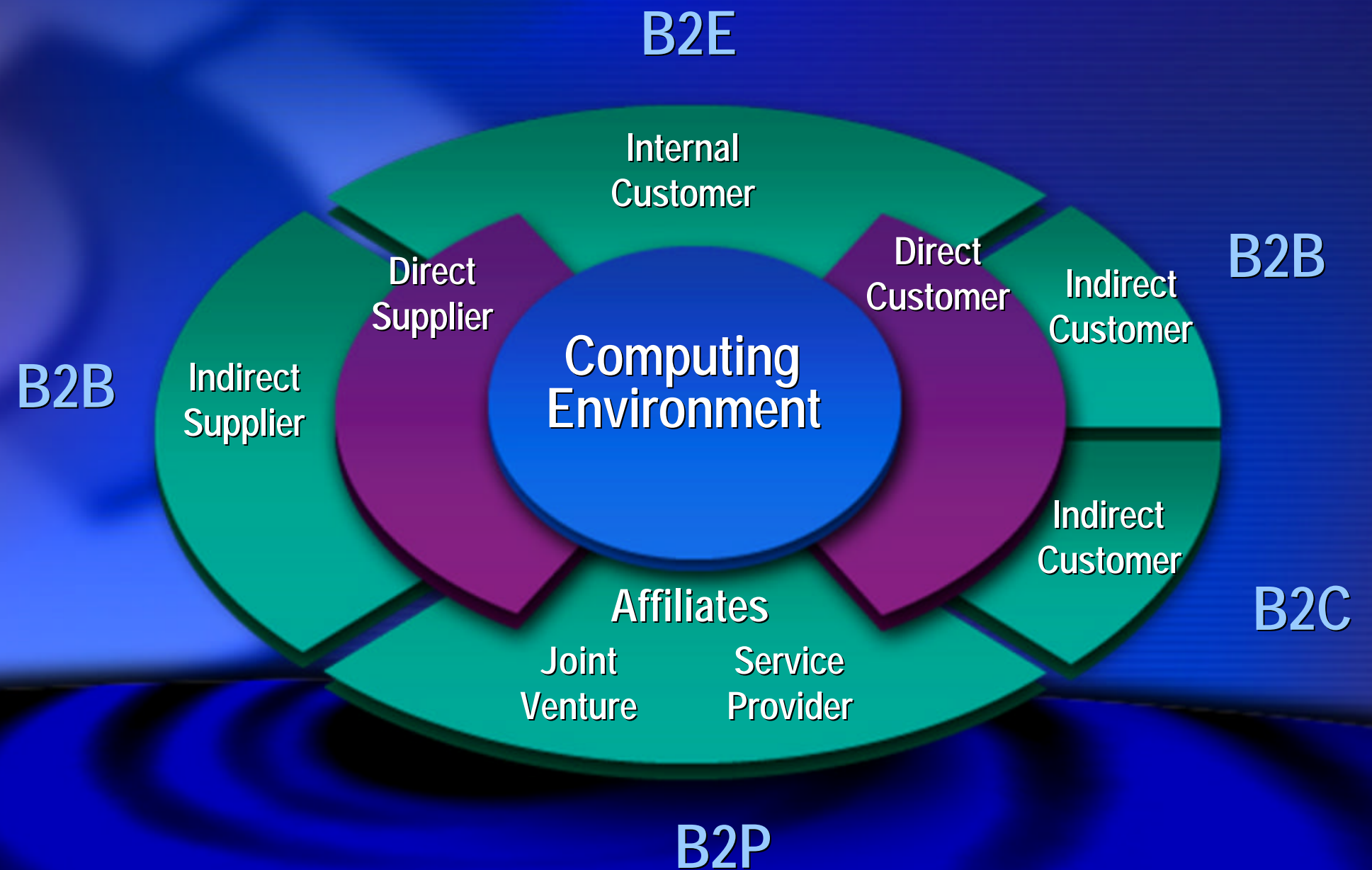
100% e-Business

B2B= Business to Business

B2E= Business to Employee

B2C= Business to Consumer

B2P= Business to Partner



e-Business Front-to-Back





Customers
just want to push a button
and watch it work

Peer-to-Peer Computing



Sharing of computer resources via
direct exchange between computers

Peer-to-Peer Computing

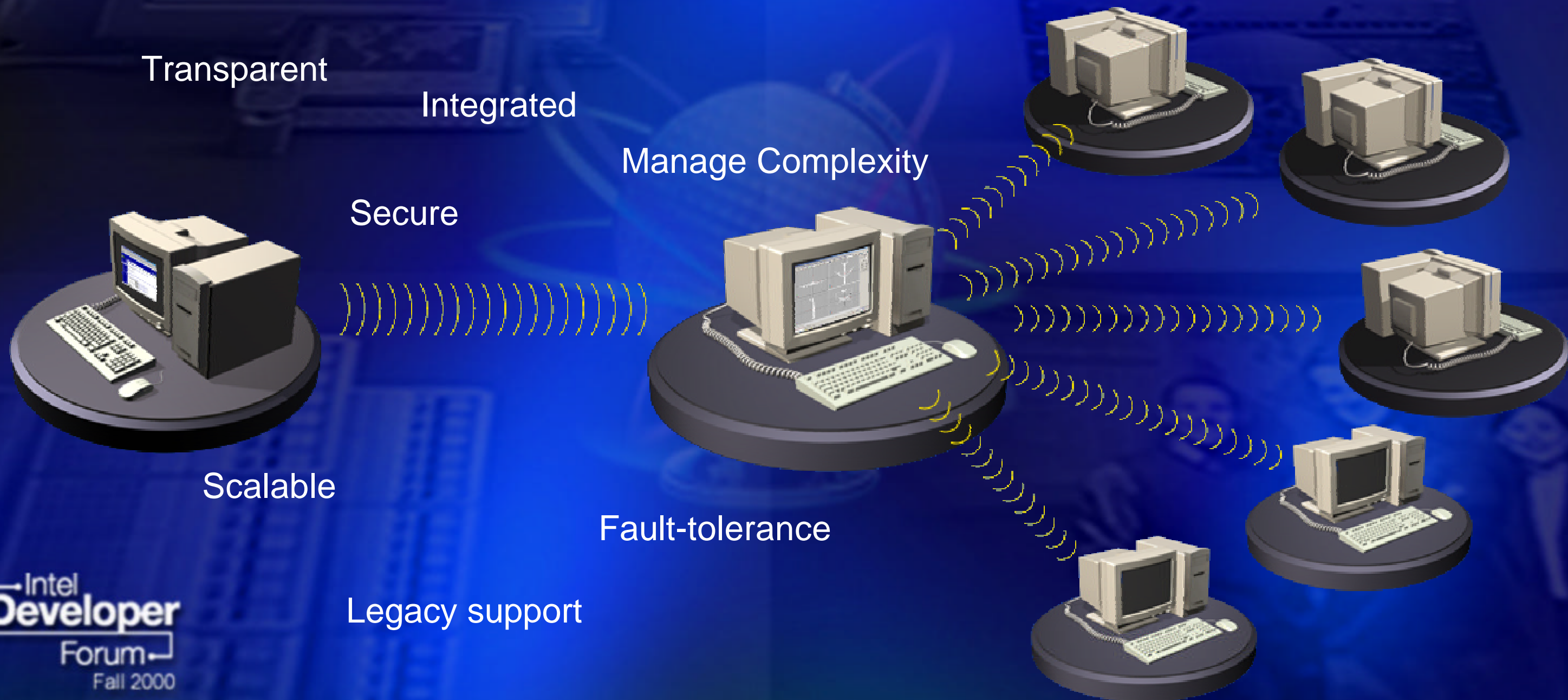
Two Examples



Users/Day : 2,160,000
Data : 28 TB
Servers : 122



Four continents
Over a dozen sites
3000 processors
> 2 Teraflops



Complexity

Disjoint name spaces

Mutually distrustful organizations

Multiple languages

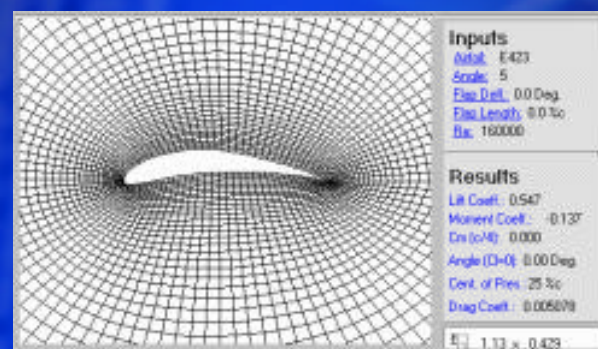
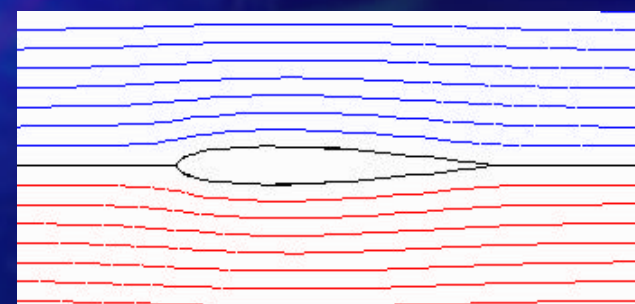
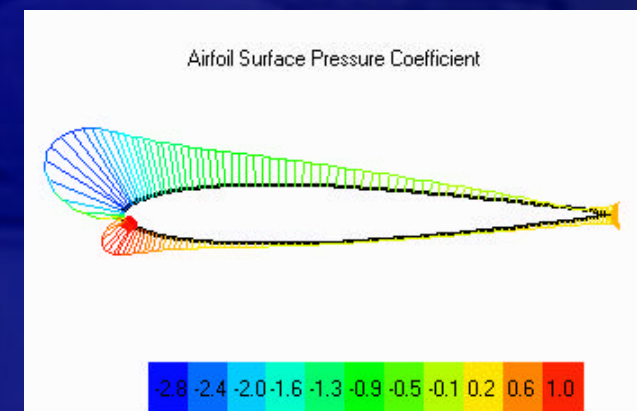
Heterogeneity

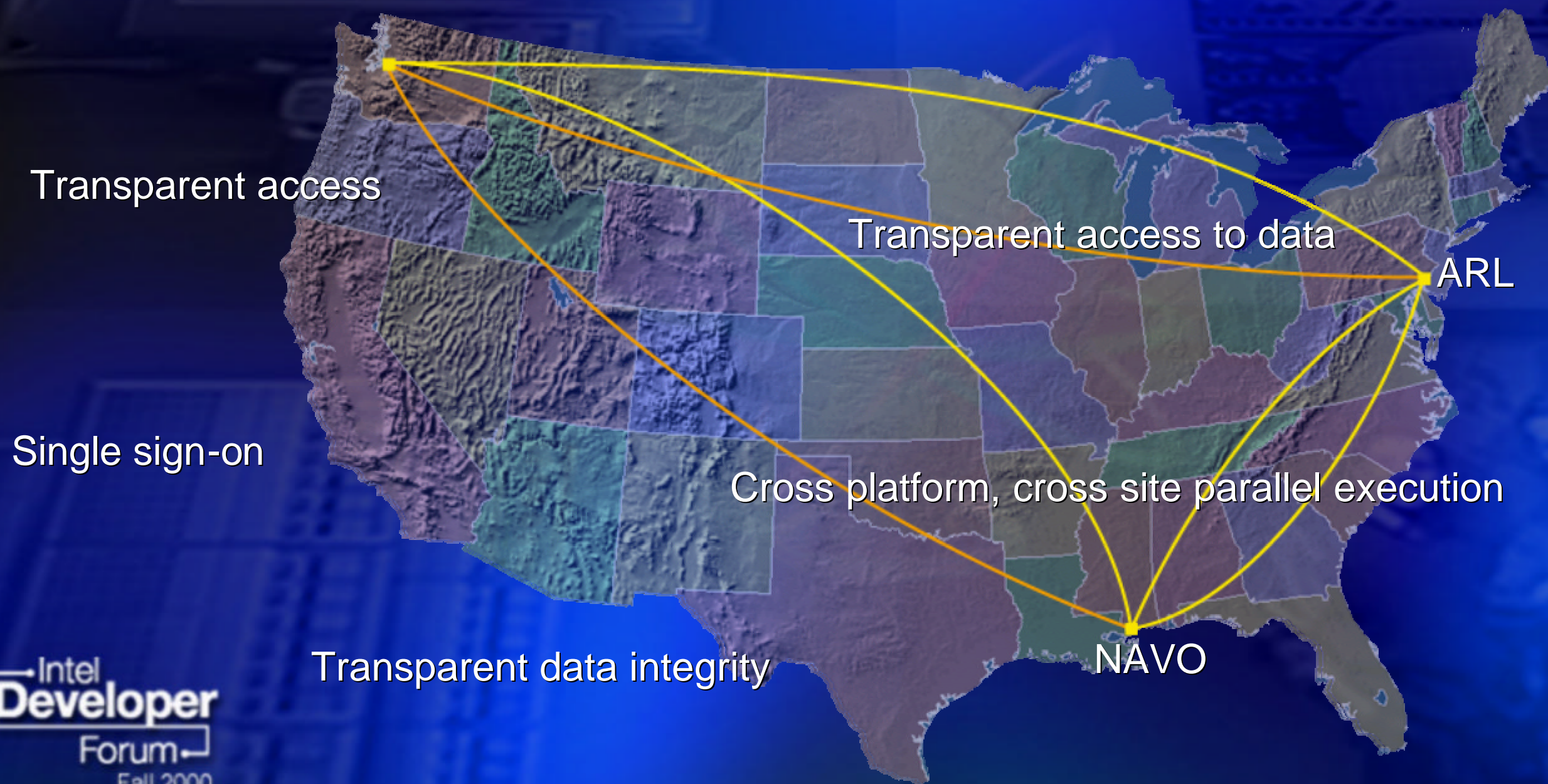
Fault-Tolerance

Security



OVERFLOW





Peer-to-Peer Computing

Building the Infrastructure

- Common Protocols
- Ease of Use
- Standards
- Scalability
- Security



**Many computers acting as
one fosters innovation**

Developing for the Modular Internet

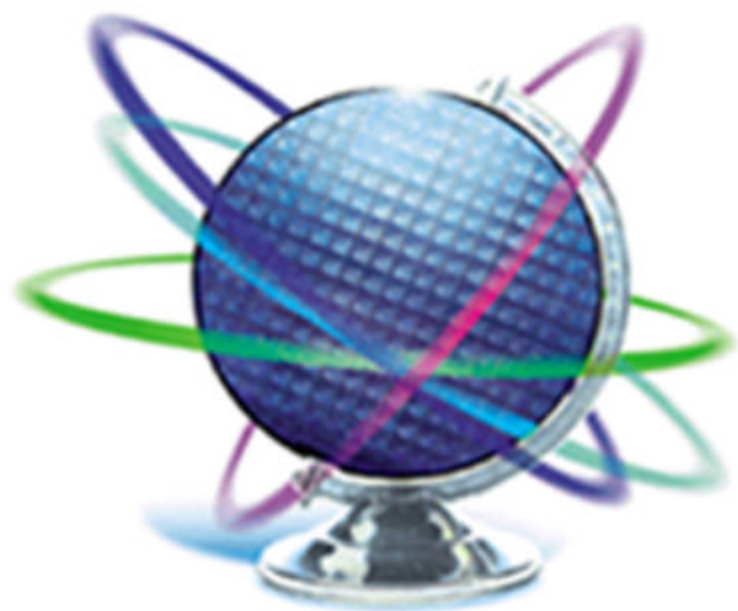
- Solutions come from many interoperable modular components
- Innovate and optimize by using standard building blocks
- Expect to cooperate



**Growing vertically requires
developing horizontally**

Summary

- The Internet is driven by many, not by one
- Developing for the Internet requires a modular approach
- Customers want complete solutions
- Many computers acting as one fosters innovation
- Innovate and optimize by using standard building blocks



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